Routing and Switching Fundamentals Series - CCNA

The Routing and Switching Fundamentals Part 1 and 2 brought to you by Pitman Training is the course for you if you are looking to pass the Cisco CCNA exam and build a career in network management or support in a Cisco environment.

This course provides knowledge and skills to make connections to remote sites via a WAN, understand basic security threats and the requirements for wireless network access. It covers the use of these protocols: IP, EIGRP, Frame Relay, RIPv2, VLANs, Ethernet, and access control lists (ACLs).

Upon completion you will receive a Pitman Training Course Completion certificate* and you'll have all the necessary training you need to go on to complete the Cisco CCNA exams – which will enable you to demonstrate to employers that you have the necessary skills to do the job.

What's more, with this accreditation on your CV, you'll be able to increase your earning potential working within a thriving IT networking department.

Designed for

Those wishing to pursue a career in network management/network support.

Aims and Objectives

To learn how to install, repair, upgrade, configure, optimise and troubleshoot on PCs and operating systems .

Course Content

Session 1: Introduction, Computer Networking Concepts, Overview of OSI Model and TCP/IP, TCP/IP Transport and Applications, Modern Ethernet LANs, Ethernet Frame Structure, Conversions.

Session 2: Wide Area Networks, WAN Concepts, Transmission Protocols, WAN Configuration, Connecting to a Network, Topologies, Shared Networking.

Session 3: Communications, IP Addressing, Subnetting, Routers, IP Routing Concepts, Static IP Routing, Dynamic Routing.

Session 4: RIP Protocol, Troubleshooting RIP, Routers and IOS, IOS Access Commands, Basic IOS Commands, IOS Maintenance Commands, ID and Interface Commands, Troubleshooting IP Routing.

* Please note that exams will need to be booked and paid for separately

Session 5: LAN Devices, Ethernet Switch Configuration, Catalyst Switches, Ethernet Switch, Fundamentals of Wireless LAN, Wireless LAN Security, Wireless LAN Configurations, Network Environment Management, Network Security.

Part II

Session 1: Introduction, VLAN and Trunking, VLAN Trunking Protocol, Configuring and Verifying VLANs, Configuring VLAN Trunking, Configuring and Verifying VTP, Troubleshooting VTP, Implementing Switch Security.

Session 2: Spanning Tree Protocol Enhancements, Rapid STP, Per-VLAN Spanning Tree Plus, VLSM and Route Summarisation, Manual Route Summarisation, Autosummarisation, Running IPv6, Technological Requirements for IPv6, Resolving IP Addressing Problems.

Session 3: Routing Protocols, Open Shortest Path First, Enhanced IGRP, Verifying Connectivity, Troubleshooting Routing, Implementing Basic Router Security.

Session 4: Access Control Lists, Configuring ACLs, Monitoring ACL Configuration, Access List Troubleshooting, Network Address Translation, Fundamentals of Frame Relay, Point-to-Point Protocol, Virtual Private Networks, WAN Implementation Issues.

Benefits

- **The flexibility and value of a self-study course designed to enable you to work at your own pace**
- **The opportunity to gain the widely recognised Pitman Training Certificate**
- **Gain a competitive edge with the Cisco CCENT and Cisco CCNA exams.**
- **Increased earning potential**
- **LearnKey courses meet the requirements to pass 640-822 ICND1® and 640-816 ICND2®.**

Course duration: 26 Hours of training

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